

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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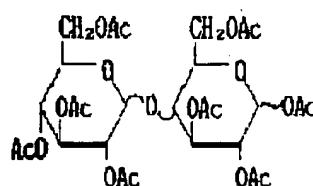
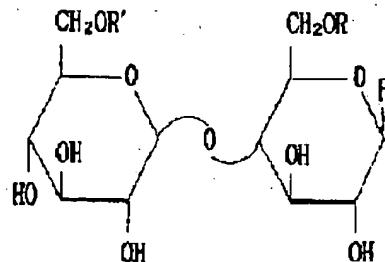
APPLICATION DATE : 12-11-93  
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APPLICANT : SHIN ETSU CHEM CO LTD;

INVENTOR : KIYOSADA SHIYUNJI;

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TITLE : CELLOBIOSE DERIVATIVE AND  
 CELLO-OLIGOMER DERIVATIVE AND  
 THEIR PRODUCTION



ABSTRACT : PURPOSE: To provide a new cellobiose derivative which is obtained from O-acetyl-substituted cellobiose and gives methyl cellulose suitably useful as a ceramic binder, a binder for the sintered base plate for batteries and the like by selective introduction of methyl group by catalytic polymerization.

CONSTITUTION: A new cellobiose derivative of formula I (both R and R' are CH<sub>3</sub> or either R or R' is CH<sub>3</sub> and the other is H), for example, 6-6'-di-O-methyl-β-D-cellobiosyl fluoride, by the catalytic polymerization of which methyl cellulose having methyl groups introduced selectively can be obtained, thus being suitably useful as a ceramic binder or a binder for battery sintered base plate or as a surfactant. The cellobiose derivative is obtained by combination of regioselective hydrolysis, methylation and fluorination of 1,2,3,6,2',3',4',6'-octa-O-acetyl-cellobiose.

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